

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	56	4 and (trapezoid\$4 pyramid\$4)	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2008/01/17 20:21
L4	2022	181/177-197.CCLS.	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2008/01/17 20:21
L3	15	2 not 1	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2008/01/17 20:21
S22 9	1	("2002248217").PN.	FPRS; EPO; JPO	OR	OFF	2008/01/17 20:17
L2	31	(US-20040161115-\$ or US-20030073489-\$ or US-20030100359-\$ or US-20040072610-\$ or US-20040224776-\$ or US-20010031658-\$ or US-20040053699-\$ or US-20040048674-\$ or US-20030114214-\$ or US-20030073491-\$).did. or (US-6179712-\$ or US-6205229-\$ or US-6035051-\$ or US-5452025-\$ or US-6009182-\$ or US-6837334-\$ or US-5140641-\$ or US-1613001-\$ or US-6379244-\$ or US-6645067-\$ or US-4517558-\$ or US-4685532-\$ or US-4893695-\$ or US-2537141-\$ or US-7044265-\$ or US-7278513-\$ or US-1067905-\$ or US-4171734-\$ or US-6581719-\$).did. or (US-2599895-\$).did. or (JP-2002248217-\$).did.	US-PGPUB; USPAT; USOCR; JPO	OR	ON	2008/01/17 20:17
L1	21	("2599895" "20010031658" "2002009 4866" "20030073489" "20030114214"  "20040048674" "20040053699" "200 40072610" "4517558" "5140641" "545 2025" "5553149" "6009182" "6035051 " "6179712" "6205299" "6379244" "6 461239" "6645067" "6837334").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 20:17
S22 8	0	("2002-248217").PN.	FPRS; EPO; JPO	OR	OFF	2008/01/17 19:13
S22 7	0	("20020701659").PN.	FPRS; EPO; JPO	OR	OFF	2008/01/17 19:12

## EAST Search History

S22 6	0	("2002701659").PN.	FPRS; EPO; JPO	OR	OFF	2008/01/17 19:11
S22 5	0	"2002701659"	JPO	OR	ON	2008/01/17 19:11
S22 4	0	("2002701659").PN.	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/01/17 19:11
S22 3	0	("2002701659").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/17 19:11
S22 2	23	("1029502"   "1158871"   "1353864"   "1403314"   "1613001"   "1920631"   "2507843"   "4166565"   "4329905"   "4703829"   "4764145"   "5094317"   "5631450"   "5726396"   "5967405"). PN. OR ("6837334").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 19:11
S22 1	5	(acoustic near horn) with (trapezoid\$4 pyramid\$4 squar\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 18:26
S22 0	793	(acoustic near horn)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 18:26
S21 9	3	(acoustic with horn with definition)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 18:26
S21 8	173	(acoustic with horn with defin\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 18:25
S21 7	17	S216 not S215	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 18:25

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S21 6	33	(US-20040161115-\$ or US-20030073489-\$ or US-20050054440-\$ or US-20030100359-\$ or US-20040072610-\$ or US-20040224776-\$ or US-20010031658-\$ or US-20040053699-\$ or US-20040048674-\$ or US-20030114214-\$ or US-20030073491-\$).did. or (US-6179712-\$ or US-6205229-\$ or US-6035051-\$ or US-5452025-\$ or US-6848996-\$ or US-6009182-\$ or US-3765503-\$ or US-6837334-\$ or US-5140641-\$ or US-1613001-\$ or US-6379244-\$ or US-6645067-\$ or US-4517558-\$ or US-4685532-\$ or US-4893695-\$ or US-2537141-\$ or US-7044265-\$ or US-7278513-\$ or US-1067905-\$ or US-4171734-\$ or US-6581719-\$).did. or (US-2599895-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 18:12
S21 5	21	("2599895" "20010031658" "20020094866" "20030073489" "20030114214" "20040048674" "20040053699" "20040072610" "4517558" "5140641" "5452025" "5553149" "6009182" "6035051" "6179712" "6205299" "6379244" "6461239" "6645067" "6837334").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 18:12
S21 4	23	("2388761"   "3086078"   "3557324"   "3571509"   "4831449"   "4893695"   "4926487"   "5036946").PN. OR ("5604337").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 18:11
S21 3	22	("1568589"   "2790164"   "4845759"   "4926487"   "4930596"   "5097923"   "5140641"   "5432857"   "5452025"   "5524062"   "5604337"   "5606297"   "5675131"   "5710394"   "5815589"   "5825900").PN. OR ("6035051").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:42
S21 2	11	("3557324"   "5119429"   "5274709"   "Re31228").PN. OR ("5452025").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:42
S21 1	1	("20040147316").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/17 17:35
S21 0	164	S208 not S209	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:35

## EAST Search History

S20 9	22	S208 and (trapezoid\$4 pyramid\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:29
S20 8	186	S207 and (horn waveguide trumpet) with (passage path guide tube)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:29
S20 7	1104	381/337-342.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:28
S20 6	20	("1843524"   "20040101149"   "20050217927"   "20050276431"   "3108653"   "4173266"   "4210223"   "4313032"   "5150418"   "5189706"   "5359158"   "5525767"   "5637840"   "5804774"   "6144751"   "6530451"   "6588544"   "6744902").PN. OR ("7252176").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:17
S20 5	16	S203 or S204	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:16
S20 4	5	(sound audi\$4 speaker) with (horn trumpet) with pyramidal	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:16
S20 3	11	(sound audi\$4 speaker) with (horn trumpet) with trapezoidal	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:16
S20 2	2	(sound audi\$4 speaker) with (horn trumpet) with trapezoid	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:16
S20 1	2	speaker with (horn trumpet) with increas\$5 with height	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:15
S20 0	21	speaker with (horn trumpet) with square	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:15
S19 9	1	speaker with (horn trumpet) with trapezoid	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:15
S19 0	1901	speaker with (horn trumpet)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:14
S19 8	75	S193 S194 S195 S196	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:10
S19 7	64	S193 S194 S195 S196	USPAT	OR	ON	2008/01/17 17:10
S19 6	15	("2537141").URPN.	USPAT	OR	ON	2008/01/17 17:10

## EAST Search History

S19 5	18	("2537141"   "4071112"   "4171734"   "4187926"   "4308932"   "4469921"   "4685532"   "4975965"   "5004067"   "5020630"   "5285025"   "5750943"   "5925856"   "5991421"   "6059069"   "6466680").PN. OR ("7044265").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:10
S19 4	45	("0969126"   "1067905"   "2001089"   "20020114482"   "20030132056"   "2684724"   "2819771"   "2848058"   "3027964"   "3735336"   "3776361"   "3957134"   "4071112"   "4091891"   "4156476"   "4164631"   "4344504"   "4390078"   "4445380"   "4470308"   "4685532"   "4726444"   "4753318"   "4764905"   "4776428"   "4836328"   "4852682"   "4945334"   "5163167"   "5168130"   "5214394"   "5524062"   "6095279"   "6112847"   "6394223"   "6581719"   "6628796"   "6744899").PN. OR ("7278513").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:09
S19 3	17	("2203875"   "2537141"   "3852529"   "4091891"   "4325456"   "4390078").PN. OR ("4685532").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 17:04
S19 2	26	"463"/\$.ccls. and (milap).xa.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 16:54
S19 1	134	speaker with (horn trumpet) with (passage path guide)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/17 16:54
S18 9	63	("181"/\$.ccls. or "381"/\$.ccls. or "273"/\$.ccls. or "463"/\$.ccls.) and ((trapezoidal pyramidal) with (horn guide passage))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 16:06
S18 8	5	("181"/\$.ccls. or "381"/\$.ccls. or "273"/\$.ccls. or "463"/\$.ccls.) and ((trapezoidal pyramidal) adj horn)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 16:04
S18 7	212	((trapezoidal pyramidal) adj horn)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 16:03
S18 6	471	((trapezoidal pyramidal) with horn)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 16:03
S18 5	22	("1568589"   "2790164"   "4845759"   "4926487"   "4930596"   "5097923"   "5140641"   "5432857"   "5452025"   "5524062"   "5604337"   "5606297"   "5675131"   "5710394"   "5815589"   "5825900").PN. OR ("6035051").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 16:03

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S18 4	23	("4174019"   "4308932"   "4369857"   "4390078"   "4503930"   "4525604"   "4685532"   "4805730"   "4969196"   "4982436"   "5000286"   "5020630"   "5109419").PN. OR ("6009182").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 15:59
S18 3	23	("1029502"   "1158871"   "1353864"   "1403314"   "1613001"   "1920631"   "2507843"   "4166565"   "4329905"   "4703829"   "4764145"   "5094317"   "5631450"   "5726396"   "5967405").PN. OR ("6837334").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 15:05
S18 2	157	("381"/\$.ccls. or "181"/\$.ccls.) and (trapezoid\$3 with (speaker sound audio noise wave))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 15:01
S18 1	105	("381"/\$.ccls. or "181"/\$.ccls.) and (trapezoid\$3 with (speaker audio noise wave))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 15:01
S18 0	558	("381"/\$.ccls. or "181"/\$.ccls.) and trapezoid\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 15:00
S17 9	20	("1843524"   "20040101149"   "20050217927"   "20050276431"   "3108653"   "4173266"   "4210223"   "4313032"   "5150418"   "5189706"   "5359158"   "5525767"   "5637840"   "5804774"   "6144751"   "6530451"   "6588544"   "6744902").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 15:00
S17 8	15	((waveguid\$3 horn\$3) with trapezoid\$4 with (speaker\$3 sound\$3 audio\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 14:58
S17 7	0	"273"/\$.ccls. and ((waveguid\$3 horn\$3) with trapezoid\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 14:58
S17 6	0	"463"/\$.ccls. and ((waveguid\$3 horn\$3) with trapezoid\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 14:58
S17 5	585	((waveguid\$3 horn\$3) with trapezoid\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 14:58
S17 4	74	((sound noise wave audio) with (guid\$3 passag\$3) with (trapezoid\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 14:57

## EAST Search History

S1	52	("20020039919" "20020090990" "20020151349" "20030073490" "20030073491" "20030100359" "20030114214" "20030114214" "20040072610" "20040136553" "20040142739" "20040142747" "20040161115" "20050043090" "20050277469" "20050282631" "3533629" "5133017" "5199075" "5259613" "5307418" "5370399" "5444786" "5469510" "5524888" "5533727" "5542669" "5594800" "5633993" "5655961" "5655961" "5762552" "5775993" "5807177" "5828768" "5833538" "5851148" "5941773" "5971850" "6068552" "6089663" "6110041" "6162121" "6217448" "6254483" "6315666" "6368216" "6422941" "6487296" "6530842" "6530842" "6561908" "6638169" "6684060").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/27 14:55
S17 2	260	(continu\$5 with shuffl\$3) and ("463"/\$.ccls. or "273"/\$.ccls.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/19 14:28
S17 3	58	(constant\$4 with shuffl\$3) and ("463"/\$.ccls. or "273"/\$.ccls.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/19 14:27
S17 1	1	("20040147316").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/04 16:38
S17 0	6	S169 not S168	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/04 14:33
S16 9	9	((fold\$3 near horn\$3) and trapezoid\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/04 14:33
S16 8	3	((fold\$3 near horn\$3) same trapezoid\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/04 14:33
S16 7	14	S165 not S163	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/04 14:31
S16 6	0	(waveguid\$3 and trapezoid\$5).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/04 14:31
S16 5	20	(waveguid\$3 and trapezoid\$5).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/04 14:31
S16 4	2273	(waveguid\$3 and trapezoid\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/04 14:30

## EAST Search History

S16 3	56	(waveguid\$3 near trapezoid\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/04 14:30
S16 2	22	("1568589"   "2790164"   "4845759"   "4926487"   "4930596"   "5097923"   "5140641"   "5432857"   "5452025"   "5524062"   "5604337"   "5606297"   "5675131"   "5710394"   "5815589"   "5825900").PN. OR ("6035051"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/04 14:29
S16 1	0	("2599895").URPN.	USPAT	OR	ON	2007/06/03 16:00
S16 0	89	(waveguid\$3 horn\$3) same (trapezoid\$3 with (sidewall\$1 wall\$1 panel\$1))	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:58
S15 9	330	(waveguid\$3 horn\$3) and (trapezoid\$3 with (sidewall\$1 wall\$1 panel\$1))	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:58
S15 8	17	"463"/\$.ccls. and waveguid\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:57
S15 7	133	(pyramidal with waveguid\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:51
S15 6	1	("381"/\$.ccls. or "181"/\$.ccls.) and (pyramidal with waveguid\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:47
S15 5	15	("381"/\$.ccls. or "181"/\$.ccls.) and (pyramidal with horn)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:47
S15 4	21	S153 not (S151 or S152)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:41
S15 3	27	("381"/\$.ccls. or "181"/\$.ccls.) and (horn same trapezoid\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:41
S15 2	5	("381"/\$.ccls. or "181"/\$.ccls.) and (waveguid\$3 with trapezoid\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:41
S15 1	24	("381"/\$.ccls. or "181"/\$.ccls.) and (trapezoid\$4).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:40
S15 0	544	("381"/\$.ccls. or "181"/\$.ccls.) and trapezoid\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:38
S14 9	13	"381"/\$.ccls. and (trapezoid\$3 same horn\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:10

## EAST Search History

S14 8	4	(waveguid\$3 with trapezoid\$4 same (speaker\$3 audio\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:10
S14 7	17	(waveguid\$3 with trapezoid\$4).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:09
S14 6	2	(waveguid\$3 with trapezoid\$4) and game	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:08
S14 5	445	(waveguid\$3 with trapezoid\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:08
S14 4	747	(waveguid\$3 same trapezoid\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/03 15:08
S14 3	1	("5,141,073").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/25 17:49
S14 2	22	("4174019"   "4308932"   "4369857"   "4390078"   "4503930"   "4525604"   "4685532"   "4805730"   "4969196"   "4982436"   "5000286"   "5020630"   "5109419").PN. OR ("6009182"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/25 17:49
S14 1	4	("3715008"   "6005957"   "6142254"). PN. OR ("6866116").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/25 17:41
S14 0	4	("3715008").URPN.	USPAT	OR	ON	2007/05/25 17:41
S13 9	298	(trapezoid\$5 with (sound\$3 audio\$3 speaker\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/25 17:39
S13 8	64	(trapezoid\$5 same (sound\$3 audio\$3 speaker\$3) with (passag\$3 tunnel\$3 avenue\$3 corridor\$3 path pathway\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/25 17:39
S13 7	834	(trapezoid\$5 same (sound\$3 speaker\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/25 17:36
S13 6	12	S135 and (trapezoid\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/25 17:36
S13 5	755	S133 or S134	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/25 17:34
S13 4	149	381/306.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/25 17:34

## EAST Search History

S13 3	611	348/836.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/25 17:34
S13 2	1	("6012045").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/16 13:32
S13 1	14	S129 not S130	US-PGPUB; USPAT	OR	ON	2006/10/10 14:38
S13 0	9	("20010031658" "20020094866" "20030073489" "20030114214" "20040072610" "5553149" "6379244" "6461239" "6645067").PN.	US-PGPUB; USPAT	OR	ON	2006/10/10 14:37
S12 9	20	(US-20040161115-\$ or US-20040072610-\$ or US-20030073490-\$ or US-20030114214-\$ or US-20030100359-\$ or US-20030073491-\$ or US-20050054440-\$ or US-20030073489-\$ or US-20010031658-\$ or US-20040224776-\$ or US-20040048674-\$ or US-20040053699-\$).did. or (US-6848996-\$ or US-5452025-\$ or US-6645067-\$ or US-6379244-\$ or US-4517558-\$ or US-6179712-\$ or US-6035051-\$ or US-6205229-\$).did.	US-PGPUB; USPAT	OR	ON	2006/10/10 14:37
S12 8	1	("20040147316").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/10 13:51
S12 7	24	S112 and trapezoid\$	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:59
S12 6	24	S112 and trapezoid\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:59
S12 5	0	S112 and trapazoid\$5	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:58
S12 4	136	381/306.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:58
S12 3	4	("3557324"   "5119429"   "5274709"   "Re31228").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:55
S12 2	3	("463"/\$.ccls. and "273"/\$.ccls.) and gam\$3 and (speaker\$3 with (path\$3 passag\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:51

## EAST Search History

S12 1	27	S118 not (S116 or S117)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:51
S12 0	27	S118 not (S116 o4 S117)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:50
S11 9	2	S117 not S116	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:50
S11 8	51	S112 and (gam\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:50
S11 7	6	S112 and (gam\$3).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:49
S11 6	22	S112 and (gam\$3 with (devic\$3 apparatus\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:49
S11 5	76	381/340.ccls. and ((sound speaker) with (path passage))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:48
S11 4	798	348/836.ccls. or 381/306.ccls. 381/340.ccls. and ((sound speaker) with (path passage))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:48
S11 2	1011	348/836.ccls. or 381/306.ccls. 381/340.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:48
S11 3	824	348/836.ccls. or 381/306.ccls. 381/340.ccls. and (path passage)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:47
S11 1	7	("5452025").URPN.	USPAT	OR	ON	2006/10/10 10:46
S11 0	34	("4517558").URPN.	USPAT	OR	ON	2006/10/10 10:39
S10 9	8	("4084194"   "4363486"   "4440457"   "4589659"   "5024439"   "5209479"   "5848932"   "6012982").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:39
S10 8	12	("20010053712"   "4440457"   "4517558"   "4795155"   "5544728"   "5700195"   "5813914"   "5826882"   "6135884"   "6164645"   "6199861"   "6420972").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:38
S10 7	0	("6533659").URPN.	USPAT	OR	ON	2006/10/10 10:37
S10 6	6	("6475087").URPN.	USPAT	OR	ON	2006/10/10 10:37

## EAST Search History

S10 5	7	("20020198035" "20030069074" "613 5884" "6198515" "6475087" "6533659  "6572472").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:36
S10 4	76	("463"/\$.ccls. "273"/\$.ccls.) and (cabinet with front).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:36
S10 3	20	S102 not S101	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:33
S10 2	22	463/46.ccls. and (speaker\$3 sound\$3).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 09:10
S10 1	3	463/46.ccls. and (speaker\$3 sound\$3).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 09:10
S10 0	113	463/46.ccls. and cabinet	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 09:10
S99	364	463/46.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 09:03
S98	26	273/14\$.ccls. and (cabinet door speaker).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 09:03
S96	36	("463".\$ccls. "273"/\$.ccls.) and (gam\$5 with (cabinet\$3 enclosur\$3)). ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 09:00
S97	190	("463".\$ccls. "273"/\$.ccls.) and (gam\$5 with (cabinet\$3 enclosur\$3)). ab.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 08:38
S95	3	(("20050110918") or ("6475087") or ("6219229")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/10 08:37
S70	36	"5452025" "5274709" "6205229" "6035051" "5119429" "5898137" "5675131"	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 08:15
S93	5	(milap).xa.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 16:22
S92	20	("1473495"   "4694723"   "4752069"   "5231239"   "5233521"   "5355762"   "5393926"   "5491297"   "5512704"   "5513129"   "5574238"   "5649861"   "5714703"   "5739457"   "5746656"   "5824933"   "5886273"   "5925843"   "6001013").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 16:22
S91	18	("6379244").URPN.	USPAT	OR	ON	2006/10/04 15:37

## EAST Search History

S90	18	("6379244").URPN.	USPAT	OR	ON	2006/10/04 15:37
S89	83	(speaker\$3 with front with (display\$3 machin\$3 cabinet\$3)) and "463"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:36
S88	1	("6475087").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/04 15:36
S87	209	S86 and (sound\$3 speaker\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:35
S86	363	463/46.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:23
S85	540	463/46-47.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:20
S84	4	("3557324"   "5119429"   "5274709"   "Re31228").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:19
S83	7	("5452025").URPN.	USPAT	OR	ON	2006/10/04 15:18
S82	252	381/388.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:15
S81	9	S78 not S80	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:14
S80	5	S77 and gam\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:09
S79	14	S78 and gam\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:08
S78	14	S76 and gam\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:08
S77	480	S74 and sound\$3 same speaker\$3 same (passag\$5 path\$3 tub\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:07
S76	766	S74 and sound\$3 and speaker\$3 and (passag\$5 path\$3 tub\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:07
S75	1416	S74 and sound\$3 and speaker\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:07
S74	2295	181/144-155.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 15:06

## EAST Search History

S71	7	(("5452025") or ("5274709") or ("6205229") or ("6035051") or ("5119429") or ("5898137") or ("5675131")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/04 15:06
S73	287	S72 and (sound\$3 speaker\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 14:51
S72	540	463/46-47.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 14:49
S69	26	((display\$5 monitor\$5) with integrat\$5 with speaker\$3).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 14:47
S68	1	((display\$5 monitor\$5) with integrat\$5 with speaker\$3).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:31
S67	30	"463"/\$.ccls. and ((display\$5 monitor\$5) with integrat\$5 with speaker\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:31
S66	759	((display\$5 monitor\$5) with integrat\$5 with speaker\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:29
S65	69	463/1-47.ccls. and (sound\$5 speaker\$5).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:28
S64	37	S61 not S62	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:10
S63	0	273/138-143\$.ccls. and (sound\$4 speaker\$3).ti. and ((gam\$5 amusement\$5) with (machin\$5 devic\$3 unit\$1 apparatus\$1))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:10
S61	71	"273"/\$.ccls. and (sound\$4 speaker\$3).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:10
S62	34	"273"/\$.ccls. and (sound\$4 speaker\$3).ti. and ((gam\$5 amusement\$5) with (machin\$5 devic\$3 unit\$1 apparatus\$1))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:09
S60	6	273/143\$.ccls. and (sound\$4 speaker\$3).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:05
S57	100	S56 and ((sound with (transmit\$5 passag\$5)) or (speaker\$5))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:05
S59	2	S58 not S57	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:02

## EAST Search History

S58	102	S54 and ((sound with (transmit\$5 passag\$5)) or (speaker\$5))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:02
S56	666	S54 and (gam\$5 with (machin\$3 devic\$3 cabinet\$5))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:01
S55	1	S53 and (gam\$5 with (machin\$3 devic\$3 cabinet\$5))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 10:00
S54	1054	273/143\$.CCLS.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 09:59
S53	1	"20040147316"	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/04 09:59
S52	17	("6379244").URPN.	USPAT	OR	ON	2006/05/01 08:20
S51	87	(((gam\$3 slot) adj (machine device)) with (sound audio music song)).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/01 08:18
S50	27	(((gam\$3 slot) adj (machine device)) with cabinet).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/01 08:16
S49	35	((sound audio music) with (channel corridor pathway lane route shaft tunnel)) and "463"/16-20.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/01 08:14
S48	393	((sound audio music) with (channel corridor pathway lane route shaft tunnel)) and "463"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/01 07:56
S47	26	((sound audio music) with (passag\$3)) and "463"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/01 07:55
S46	13	(internal with speaker) and 463/16-20.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/01 07:54
S45	79	((sound audio) with (hole slit)) and "463"/\$.ccls. and (((gam\$3 slot) adj (device machine)))	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/01 07:46
S44	30	(sound audio music song speaker).ti. and 463/16-20.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/01 07:45
S43	1	("6413161").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/28 09:03
S42	202	S35 and ((slot gam\$3) adj (machine device)).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:33

## EAST Search History

S41	324	S35 and ((slot gam\$3) adj (machine device))	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:32
S40	582	D21/369-373.ccls. and design	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:32
S39	1001	D21/369-384.ccls. and design	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:31
S38	3440	D21/347-397.ccls. and design	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:31
S37	1	D21/347-397.ccls. and desgin	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:30
S36	3	D21/347-397.ccls. and desgn	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:30
S35	6387	D21/347-397.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:30
S34	0	d21/370.ccls	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:30
S33	0	d21/369.ccls	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:29
S32	17	d21/347-380.ccls. and (sound audio)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:29
S31	4609	d21/347-380.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:28
S30	617	((gaming adj (device machine)) with design) and "463"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:28
S29	8	((sound audio) adj generat\$3).ti. and ("463"/\$.ccls. "273"/\$.ccls.)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:25
S28	0	((sound audio) adj generat\$3).ti. and 463/16-20.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:24
S27	2	((sound audio) adj generat\$3 with device).ab. and 463/16-20.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:24

## EAST Search History

S26	95	((sound audio) adj generat\$3 with device) and 463/16-20.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:22
S25	153	((sound audio) with generat\$3 with device) and 463/16-20.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 20:15
S24	7	((sound audio music) with (transmit\$5 generat\$5) with (hole\$3 passag\$3)). ab. and ("273"/\$.ccls. or "463"/\$.ccls.)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 19:20
S23	1	((sound audio music) with (transmit\$5 generat\$5) with (hole\$3 passag\$3)).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 19:19
S14	23	((sound audio music) with (transmit\$5 generat\$5) with (hole\$3 passag\$3)) and "463"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 19:19
S22	175	((audio sound) adj (system device)) same (gam\$3 adj (machine device)) and "463"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 19:09
S21	285	((audio sound) adj (system device)) same (gam\$3 with (machine device))) and "463"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 19:09

## EAST Search History

S20	123	("20010029542" "20020090990" "20020109718" "20030073491" "20040053695" "20040063489" "20040142739" "20040142747" "20040209685" "2005043090" "20050054440" "20050054442" "20050064935" "0277469" "0282631" "3831172" "4300225" "4314236" "4339798" "4344345" "4363482" "4496149" "4582324" "4618150" "4624459" "4660107" "4695053" "4712189" "4732386" "4733593" "4791558" "4876937" "4961575" "4974483" "4974857" "5046735" "5096195" "5119465" "5179517" "5221801" "5223828" "5242163" "5258574" "5266736" "5275400" "5287102" "5331112" "5342047" "5371345" "5393061" "5393070" "5430835" "5446902" "5449173" "5515764" "5695188" "5697843" "5703310" "5707286" "5762552" "5766074" "5772509" "5792972" "5807172" "5830069" "5833538" "5839958" "5848932" "5854927" "5892171" "5902184" "5908354" "5910048" "5920842" "5923878" "5967894" "5997401" "6003038" "6015346" "6052527" "6056642" "6062979" "6071192" "6089976" "6089978" "6102400" "6103964" "6110041" "6113495" "6117009" "6126165" "6142875" "6146276" "6155925" "6159097" "6174233" "6174235" "6175632" "6217448" "6233731" "6238288" "6241612" "6254481" "6270411" "6293869" "6295638" "6302790" "6309301" "6321323" "6416411" "6504089" "6561908" "6561908" "6656046" "6656046" "6729618" "6739973" "6769985" "6810517" "6848996" "6935955" "D421277" "RE31441").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 19:08
S19	15	("5259613"   "5494294"   "5564700"   "5752882"   "5833537"   "5851148"   "5913515"   "5919088"   "5971271"   "5971851"   "6012982"   "6027115"   "6039648"   "6113495"   "D416054").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 19:03
S18	95	S15 not (S14 or S17 or S13)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 18:15
S17	24	(sound audio music) with (transmit\$5 generat\$5) with (hole\$3 passag\$3) with (gam\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 18:15
S16	0	("2004/0147316").URPN.	USPAT	OR	ON	2006/04/27 18:12

## EAST Search History

S15	95	S3 not S13	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 18:10
S13	30	(sound audio).ti. and 463/16-22.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 18:09
S3	125	(sound audio).ti. and 463/1-48.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 17:59
S12	2	("2002098886").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/27 17:49
S11	0	(2002/098886).CCLS.	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	OFF	2006/04/27 17:49
S10	0	(2002/098886).CCLS.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2006/04/27 17:49
S9	2	("6461239").PN. or ((2002/098886) or (2001/031658)).CCLS.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2006/04/27 17:49
S5	1	("6461239").PN. or ((2002/098886) or (2001/031658)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/27 17:49
S8	2	("20010031658").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2006/04/27 17:47
S7	0	(2001/0031658).CCLS.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2006/04/27 17:47
S6	1	("6461239").PN. or (2001/0031658).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/27 17:47
S4	1	(("2002098886") or ("6461239") or ("2001031658")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/27 17:45
S2	51	(sound audio).ti. and 463/16-33.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/27 17:42